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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,393	09/27/2003	Anthony Lo		2392
7590 10/01/2004			EXAMINER	
Anthony			ALLEN, DENISE S	
Lo Rm. 7, 7/fl., New City Centre			ART UNIT	PAPER NUMBER
2, Lei Yue Mun Road, Kwun Tong, Kowloon			2872	
Hong Kong,			DATE MAILED: 10/01/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s)				lón
Examiner Derice Action Summary - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CPR 1.736(b). In no event, however, may a reply be timely filed - If No period for reply is specified above, the measurem statutory period will apply and vall expert SIX (6) MONTHS from the mailing date of this communication of the period for reply is specified above, the measurem statutory period will apply and vall expert SIX (6) MONTHS from the mailing date of this communication. - If No period for reply is specified above, the measurem statutory period will apply and vall expert SIX (6) MONTHS from the mailing date of this communication. - If No period for reply is specified above, the measurem statutory period will apply and vall expert SIX (6) MONTHS from the mailing date of this communication. - If No period for reply is specified and the statutory period will apply and vall expert SIX (6) MONTHS from the mailing date of this communication. - If No period for reply is specified and the statutory period will apply and vall expert SIX (6) MONTHS from the mailing date of this communication. - If No period for reply is specified to the statutory period will apply and vall expert SIX (6) MONTHS from the mailing date of this communication. - If No period for reply is specified to the statutory period six (6) MONTHS from the mailing date of this communication. - If No period for reply is specified to the statutory period six (6) MONTHS from the mailing date of this communication. - If No period for reply is specified to the statutory period six (6) MONTHS from the mailing date of this communication. - If No period for reply is specified to the statutory period six (6) MONTHS from the mailing date of the mailing date of the statutory period six (6) MONTHS from the mailing date		Application No.	Applicant(s)	
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2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☑ Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 27 September 2003 is/are: a) ☐ accepted or b) ☑ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☑ None of: 1. ☑ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Informal Patent Application (PTO-152)	Status			
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4)	closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.	
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 27 September 2003 is/are: a) □ accepted or b) ☒ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) ☒ None of: 1. ☒ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) □ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) □ Notice of Informal Patent Application (PTO-152)	Disposition of Claims			
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a) ☐ All b) ☐ Some * c) ☒ None of: 1. ☒ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	Priority under 35 U.S.C. § 119			
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3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 1 Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Informal Patent Application (PTO-152)	• • • •		Application No	
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DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in the United Kingdom on September 25, 2002. It is noted, however, that applicant has not filed a certified copy of the GB 0222244.6 application as required by 35 U.S.C. 119(b).

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "50" (Figure 6) has been used to designate both a light ray and an image item. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: reference 70 (paragraph 0040 line 10). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior

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version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Figure 2 references 13 and 15; Figure 5 references 40 and 42; Figure 6 references 51, 52, 58, 60, 62, 64, 66, 68, and 74; and Figure 7 references 78, 80, and 82. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

Claims 1-3 are objected to because of the following informalities:

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The limitation "the beam splitter" (claim 1 line 5 and claim 2 line 1) lacks antecedent basis because it has not been previously recited. Suggested correction: replace the limitation with "the mirror beam splitter system".

The preamble of claim 2 is unclear because it indicates that claim 2 depends on only a portion of claim 1, specifically the mirror beam splitter system. Suggested correction: replace "The beam splitter in claim 1 having" with "The 3D imaging system using reflectors of claim 1, wherein the mirror beam splitter system has".

The preamble of claim 3 is unclear because it indicates that claim 3 depends on only a portion of claim 1, specifically the lens pair. Suggested correction: replace "The lens pair in claim 1 positioned" with "The 3D imaging system using reflectors of claim 1, wherein the lens pair is positioned".

The limitation "the two inner mirrors" (claim 3 line 3) lacks antecedent basis because it has not been previously recited. Suggested correction: add the limitation "wherein the mirror beam splitter system comprised two inner mirrors" to claim 1 or 3.

The limitation "the combined light paths" (claim 3 lines 4-5) lacks antecedent basis because it has not been previously recited. Suggested correction: replace the limitation with "the dual images".

The limitation "has an effect on the view finder and light meter measurable to within two aperture stops to that of a single light path" (claim 3 lines 5-7) is unclear because it does not indicate what the effect is. Suggested correction: replace the limitation with "produce a measured exposure at the viewfinder and light meter of the single lens reflex camera that is within two

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aperture stops of a measured exposure for a single image". For the purpose of examination, this limitation is interpreted to have the meaning of the suggested correction.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 – 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lo (US 4,911,530).

Regarding claim 1, Lo teaches a 3D imaging system using reflectors (figures 4 and 9), comprising a mirror beam splitter system (reference 10) having an even number of mirrors (references 11, 12, 13, and 14) and a lens panel having a pair of lenses (references 15 and 16) and an aperture panel with a pair of apertures (see Figure 9 between references 46, 62, and 64); where the beam splitter turns the single light path from a single subject into dual divergent light paths as viewed from two different angles and projects them through the lens pair and then the aperture panel to form dual images with a 3D offset which can be captured on film, electronic recording media or ground glass in a Single Lens Reflex (SLR) camera (column 1 lines 37 – 47). Lo discloses the claimed invention except for the lens pair and the aperture panel being reversed. It would have been obvious to one having ordinary skill in the art at the time the invention was made to reverse the lens pair and the aperture panel, since it has been held that a mere reversal of

working parts of a device involves only routine skill in the art. One would have been motivated to reverse the lens pair and the aperture panel for the purpose of making the lens pair the last element of the 3D imaging system so that the 3D imaging system is enclosed, self-contained, and matches up with the camera (Figure 7 references 10 and 29).

Regarding claim 2, Lo teaches the mirror beam splitter system having an even number of mirrors in a staggered formation in which one group of mirrors is set in front of the other to allow the light paths to crossover to form dual transposed images (Figure 4).

Regarding claim 3. Lo teaches the lens pair is positioned so that the light paths passing through them are sufficiently wide apart to accommodate the two inner mirrors (Figure 4) while close enough together so that the intensity and incident angle of the combined light paths has an effect on the viewfinder and light meter measurable to within two aperture stops to that of a single light path (column 5 lines 1 - 47).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Denise S Allen whose telephone number is (571) 272-2305. The examiner can normally be reached on Monday - Friday, 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew A Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Denise S Allen Examiner Art Unit 2872 Page 7

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Audrey Chang
Primary Examiner
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